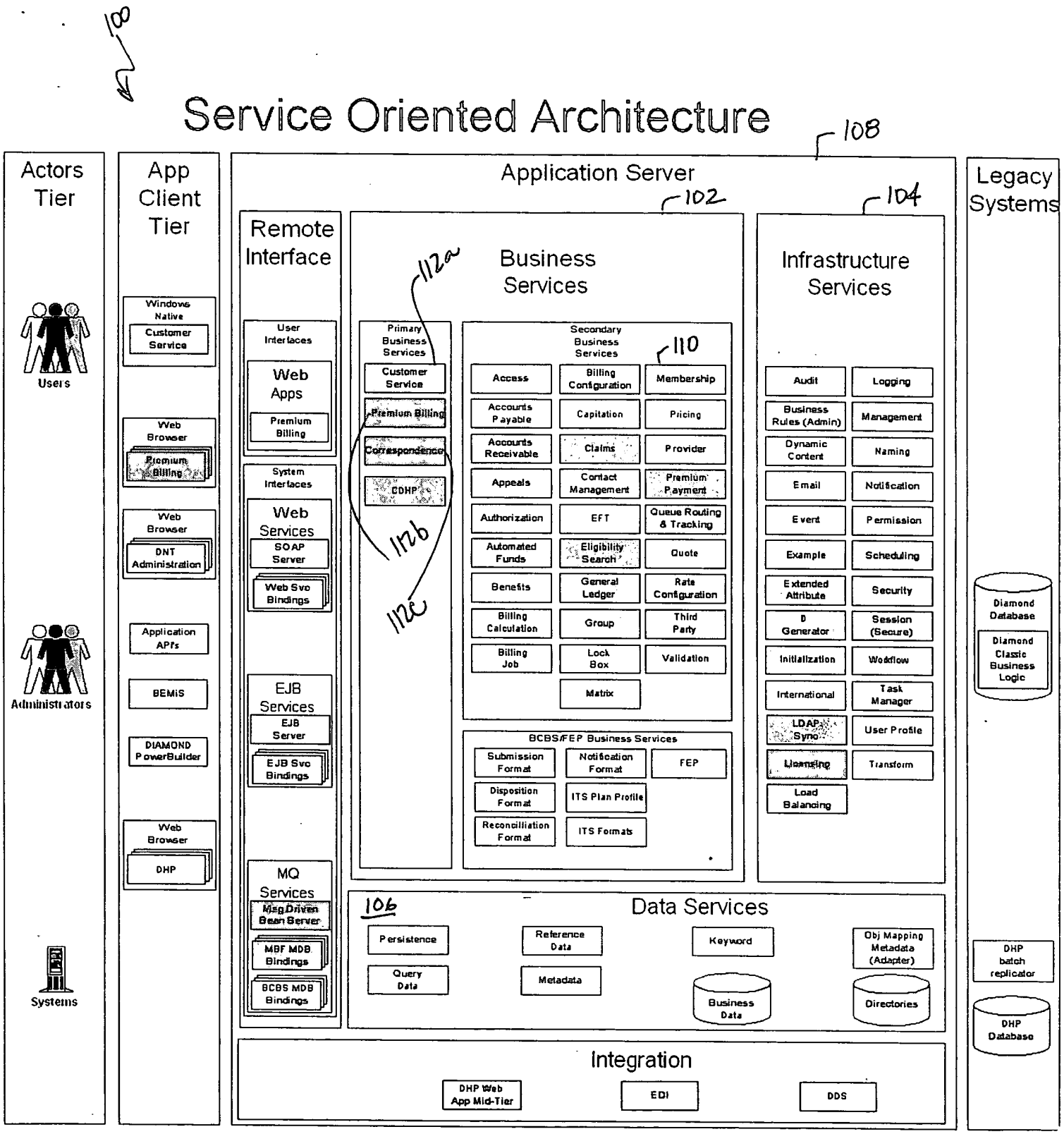
100
Service Oriented Architecture
Actors Tier
App Client Tier
Application Server
108
Legacy Systems
Users
Administrators
Systems
Windows Native
Customer Service
Web Browser
Premium Billing
Web Browser
DNT Administration
Application APIs
BEMiS
DIAMOND PowerBuilder
Web Browser
DHP
Remote Interface
User Interfaces
Web Apps
Premium Billing
System Interfaces
Web Services
SOAP Server
Web Svc Bindings
EJB Services
EJB Server
EJB Svc Bindings
MQ Services
Msg Driven Bean Server
MBF MDB Bindings
BCBS MDB Bindings
Business Services
102
112a
112b
112c
Primary Business Services
Customer Service
Premium Billing
Correspondence
CDHP
Secondary Business Services
110
Access
Billing Configuration
Membership
Accounts Payable
Capitation
Pricing
Accounts Receivable
Claims
Provider
Appeals
Contact Management
Premium Payment
Authorization
EFT
Queue Routing & Tracking
Automated Funds
Eligibility Search
Quote
Benefits
General Ledger
Rate Configuration
Billing Calculation
Group
Third Party
Billing Job
Lock Box
Validation
Matrix
BCBS/FEP Business Services
Submission Format
Notification Format
FEP
Disposition Format
ITS Plan Profile
Reconciliation Format
ITS Formats
Infrastructure Services
104
Audit
Logging
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Management
Dynamic Content
Naming
Email
Notification
Event
Permission
Example
Scheduling
Extended Attribute
Security
ID Generator
Session (Secure)
Initialization
Workflow
International
Task Manager
LDAP Sync
User Profile
Licensing
Transform
Load Balancing
Data Services
106
Persistence
Reference Data
Keyword
Obj Mapping Metadata (Adapter)
Query Data
Metadata
Business Data
Directories
Integration
DHP Web App Mid-Tier
EDI
DDS
Diamond Database
Diamond Classic Business Logic
DHP batch replicator
DHP Database

FIGURE 1

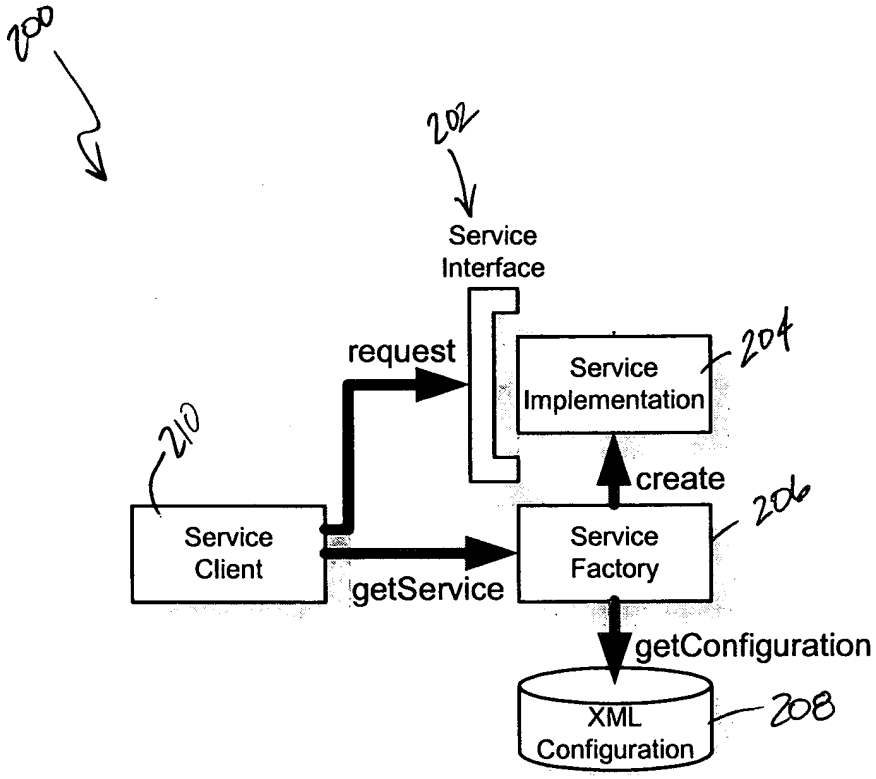
200
202
Service Interface
request
Service Implementation
204
210
create
206
Service Client
Service Factory
getService
getConfiguration
XML Configuration
208

FIGURE 2

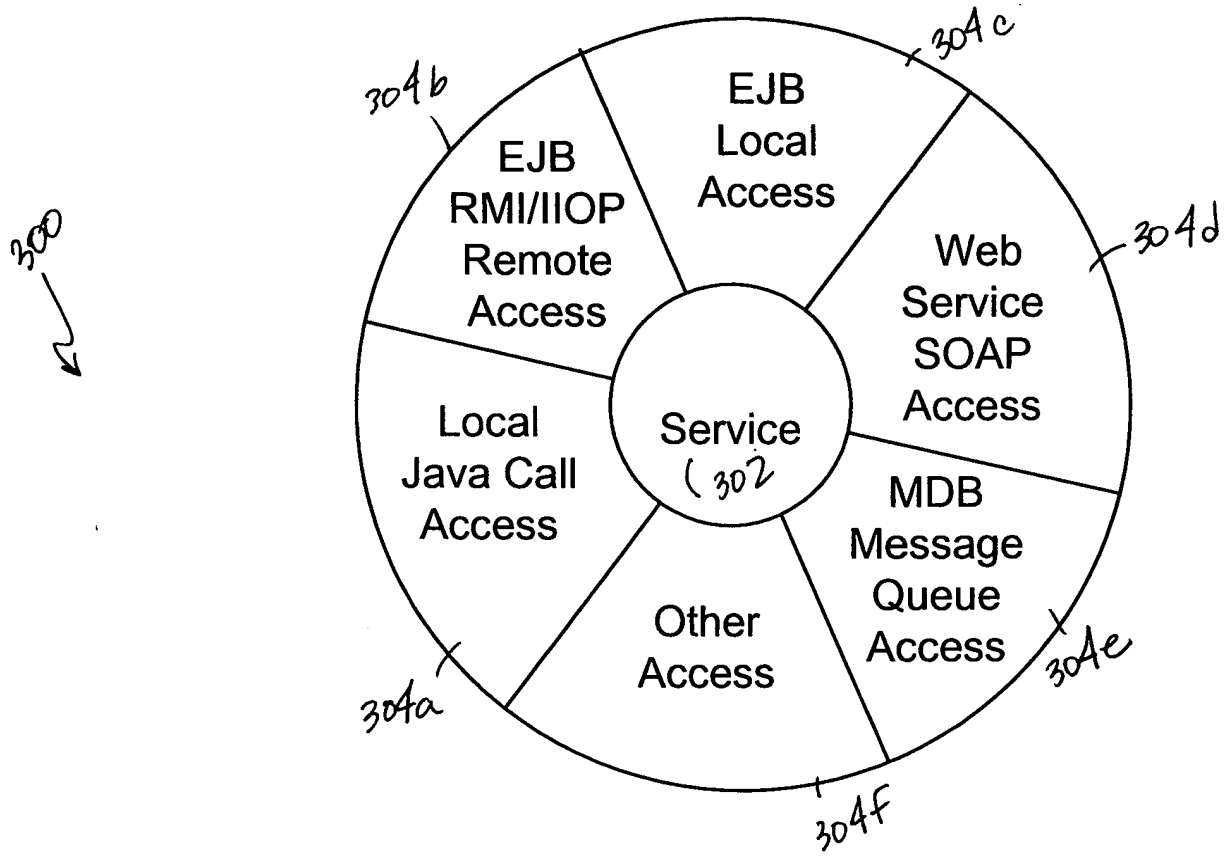
300
304b
EJB
RMI/IIOP
Remote
Access
304c
EJB
Local
Access
304d
Web
Service
SOAP
Access
Local
Java Call
Access
Service
(302
MDB
Message
Queue
Access
304e
Other
Access
304a
304f

FIGURE 3

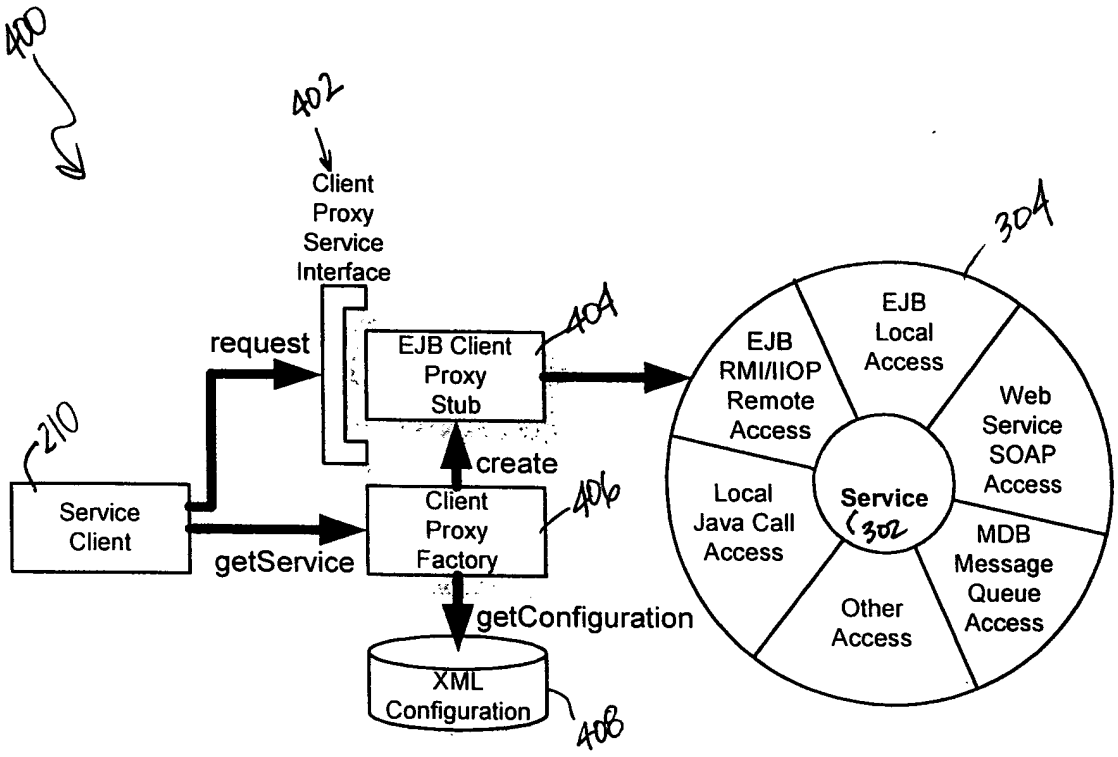
400
402
Client
Proxy
Service
Interface
request
EJB Client
Proxy
Stub
404
304
EJB
Local
Access
EJB
RMI/IIOP
Remote
Access
Web
Service
SOAP
Access
210
Service
Client
create
Client
Proxy
Factory
406
Local
Java Call
Access
Service
302
MDB
Message
Queue
Access
getService
getConfiguration
Other
Access
XML
Configuration
408

FIGURE 4

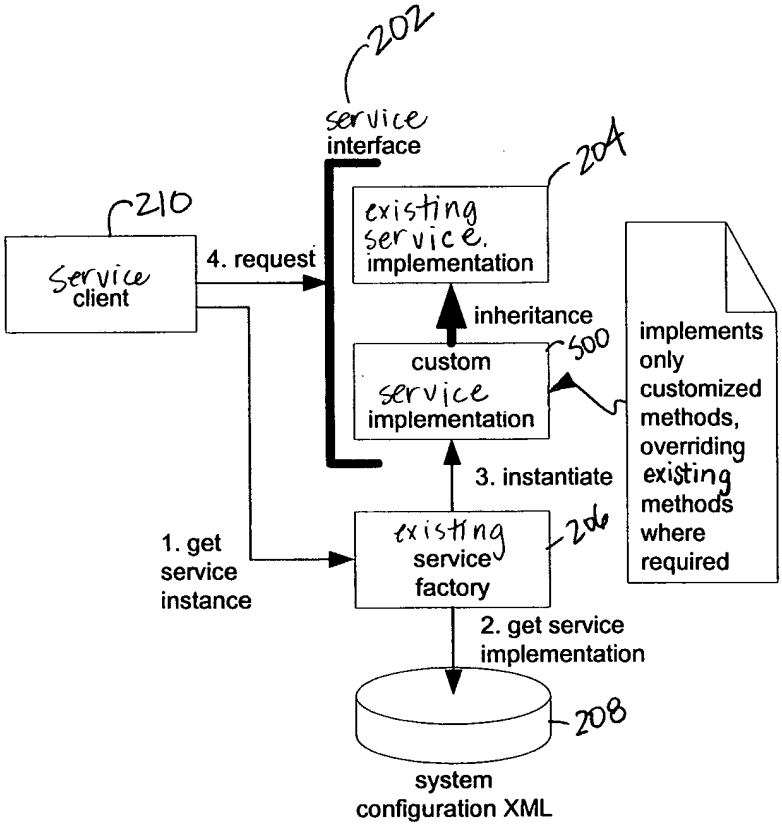
202
service interface
204
existing service implementation
210
Service client
4. request
inheritance
custom service implementation
500
implements only customized methods, overriding existing methods where required
3. instantiate
1. get service instance
existing service factory
206
2. get service implementation
208
system configuration XML

FIGURE 5

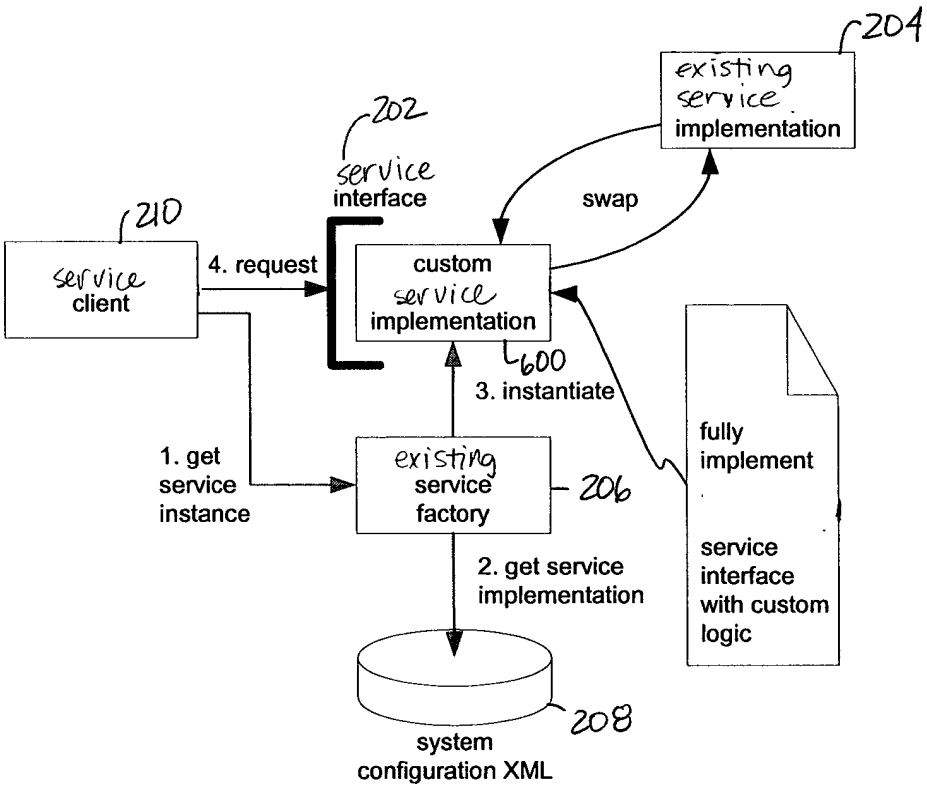
204
existing service implementation
202
service interface
swap
210
service client
4. request
custom service implementation
600
3. instantiate
fully implement
service interface with custom logic
1. get service instance
existing service factory
206
2. get service implementation
208
system configuration XML

FIGURE 6

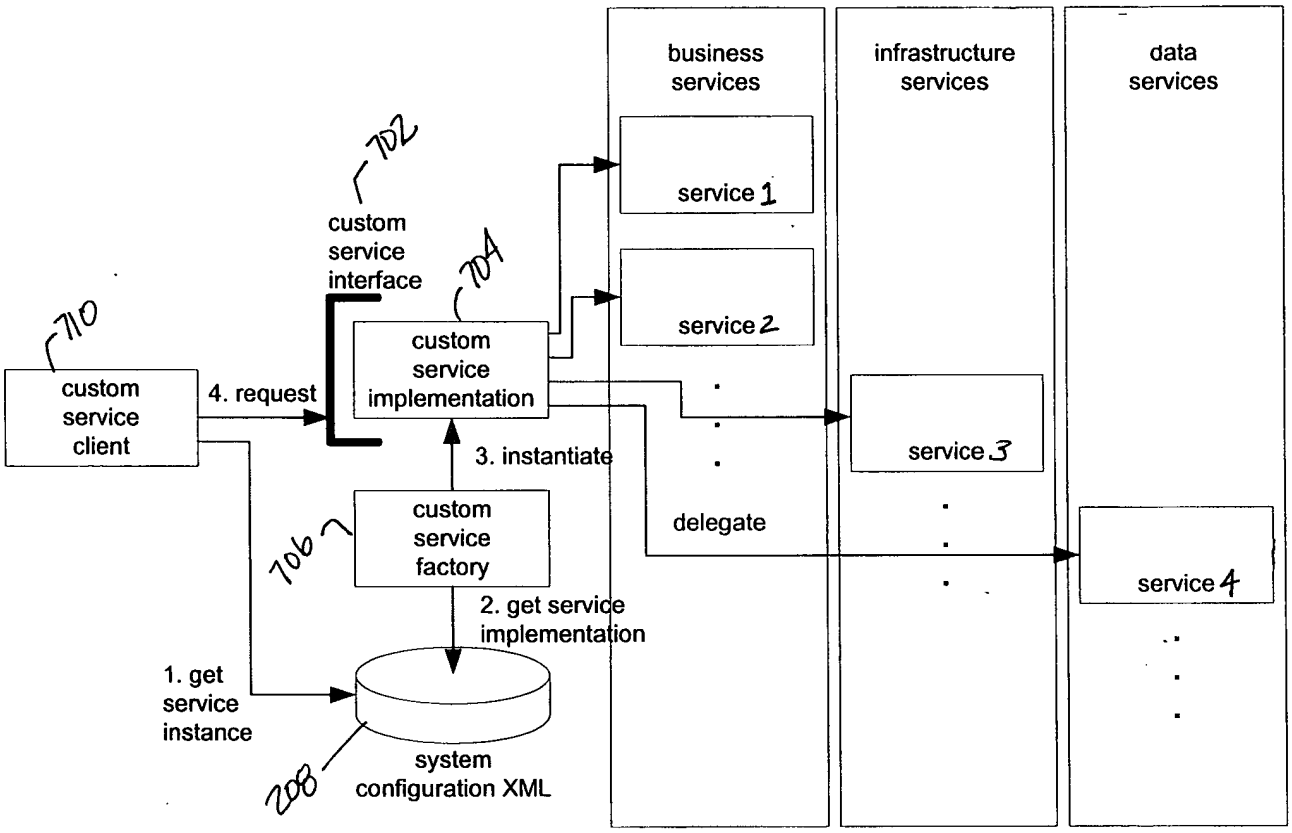
business services
infrastructure services
data services
service 1
service 2
service 3
service 4
custom service interface
custom service implementation
custom service client
4. request
3. instantiate
custom service factory
delegate
2. get service implementation
1. get service instance
system configuration XML
702
704
710
706
208

FIGURE 7